

ABSTRACT OF THE DISCLOSURE

Creep-proof and corrosion-resistant nickel-based alloy for the use in high-temperature technology, comprising, in wt-%:

0.0015 to 0.60 carbon (C);

0.20 to 0.90 nitrogen (N);

22.0 to 32.0 chromium (Cr);

5.0 to 20.0 elements of group 4, 5, and 6 of the periodic table, except Cr;

0.03 to 3.0 aluminum (Al);

0.4 to 3.0 silicon (Si);

up to 0.15 elements of group 3 of the periodic table, except actinoids;

up to 0.60 manganese (Mn);

up to 14.8 iron (Fe);

up to 0.01 boron (B);

a maximum of 0.014 phosphorus (P);

a maximum of 0.004 sulfur (S);

a minimum of 51 nickel (Ni) or a combination of nickel (Ni) and cobalt (Co);

and

melting-related impurities.